



UNITED STATES PATENT AND TRADEMARK OFFICE

QUOCTRAN
PRIMARY EXAMINER

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1430
Alexandria, Virginia 22313-1430
www.uspto.gov



Bib Data Sheet

CONFIRMATION NO. 5721

SERIAL NUMBER 10/644,229	FILING DATE 08/20/2003 RULE	CLASS 379	GROUP ART UNIT 2643	ATTORNEY DOCKET NO. P16581
-----------------------------	---------------------------------------	--------------	------------------------	----------------------------------

APPLICANTS

Sigang Qiu, Raleigh, NC;

** CONTINUING DATA *****

** FOREIGN APPLICATIONS *****

IF REQUIRED, FOREIGN FILING LICENSE GRANTED

** 09/16/2003

Foreign Priority claimed <input type="checkbox"/> yes <input type="checkbox"/> no	STATE OR COUNTRY NC	SHEETS DRAWING 10	TOTAL CLAIMS 47	INDEPENDENT CLAIMS 10
35 USC 119 (a-d) conditions met <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after Allowance				
Verified and Acknowledged	Examiner's Signature	Initials		

ADDRESS

28062
BUCKLEY, MASCHOFF, TALWALKAR LLC
5 ELM STREET
NEW CANAAN , CT
06840

TITLE

Methods and apparatus for characterizing subscriber loop based on analysis of DSL handshaking signals and for optimization of DSL operation

FILING FEE RECEIVED 1824	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____
------------------------------------	---	--